Task: Build a Weather Forecast Application

Description:

Your task is to create a simple Weather Forecast application that allows users to check the current weather conditions for a specific location. The application should display basic weather information such as temperature, humidity, wind speed, and weather description.

Requirements:

Use a weather API (e.g., OpenWeatherMap API) to fetch weather data for a given location.

Provide an input field for users to enter the name of the city or location they want to check the weather for.

Fetch weather data from the API based on the user's input.

Display the current weather conditions, including temperature, humidity, wind speed, and weather description.

Use appropriate icons or images to represent the weather conditions (e.g., sunny, cloudy, rainy, etc.).

Handle errors gracefully if the entered location is invalid or if there is an issue with fetching data from the API.

Ensure that the application has a clean and user-friendly interface.

Add basic styling using CSS to improve the visual appeal of the application.

Make the application responsive to different screen sizes and devices.

Bonus Features (Optional):

Implement a feature to display the weather forecast for the next few days (e.g., 3-day or 5-day forecast).

Allow users to toggle between different units of measurement (e.g., Celsius/Fahrenheit for temperature, meters/feet for wind speed, etc.).

Add a background image or animation that changes based on the current weather conditions.

Implement geolocation to automatically detect the user's current location and display the weather for that location.

Provide suggestions or autocomplete functionality in the input field based on the user's input.

Add animations or transitions to enhance the user experience when fetching and displaying weather data.

Submission:

Submit your project as a GitHub repository or a ZIP file containing the HTML, CSS, and JavaScript files.

Include a README.md file with instructions on how to run the application, any dependencies required, and any additional notes.